Desktop and Server Migration to Mac OS X

Session 617

Desktop and Server Migration to Mac OS X

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Apple

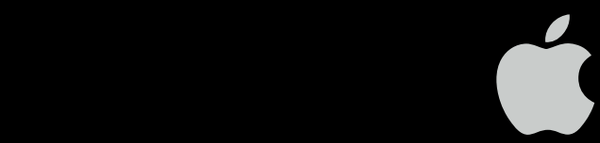
Introduction

- Overview of available tools and best practices for an efficient migration of your desktops and servers to “Panther” and “Panther Server”

RIP Mac OS 9

What You Will Learn

- Top 10 reasons why you should migrate to Mac OS X and Mac OS X Server
- General Mac OS X Migration Guidelines
- Special guest from Pixar
- Migration from Windows Desktops to Mac OS X
- Migration from Windows NT/2000 to Mac OS X Server
- Key enterprise deployments solutions that will save you time and money



Top 10 reasons to Move to Mac OS X

- Security
- Stability
- Directory integration
- Single sign-on
- Server based user home directories
- Workgroup management (workstation policies)
- Central desktop administration
- Robust UNIX based foundation
- Software developers have transitioned to Mac OS X
- Microsoft licensing costs

General Migration Guidelines

- Plan your directory strategy
- Plan your desktop management
- Get certified at http://train.apple.com
- Sign up for AppleCare “Mac OS X Server Software Support”
- Get familiar with Apple tools: Disk Utility, Network Image Utility, and Apple Remote Desktop

Mac OS 9 to Mac OS X 10.3 “Panther”

Mac OS 9 to Mac OS X 10.3

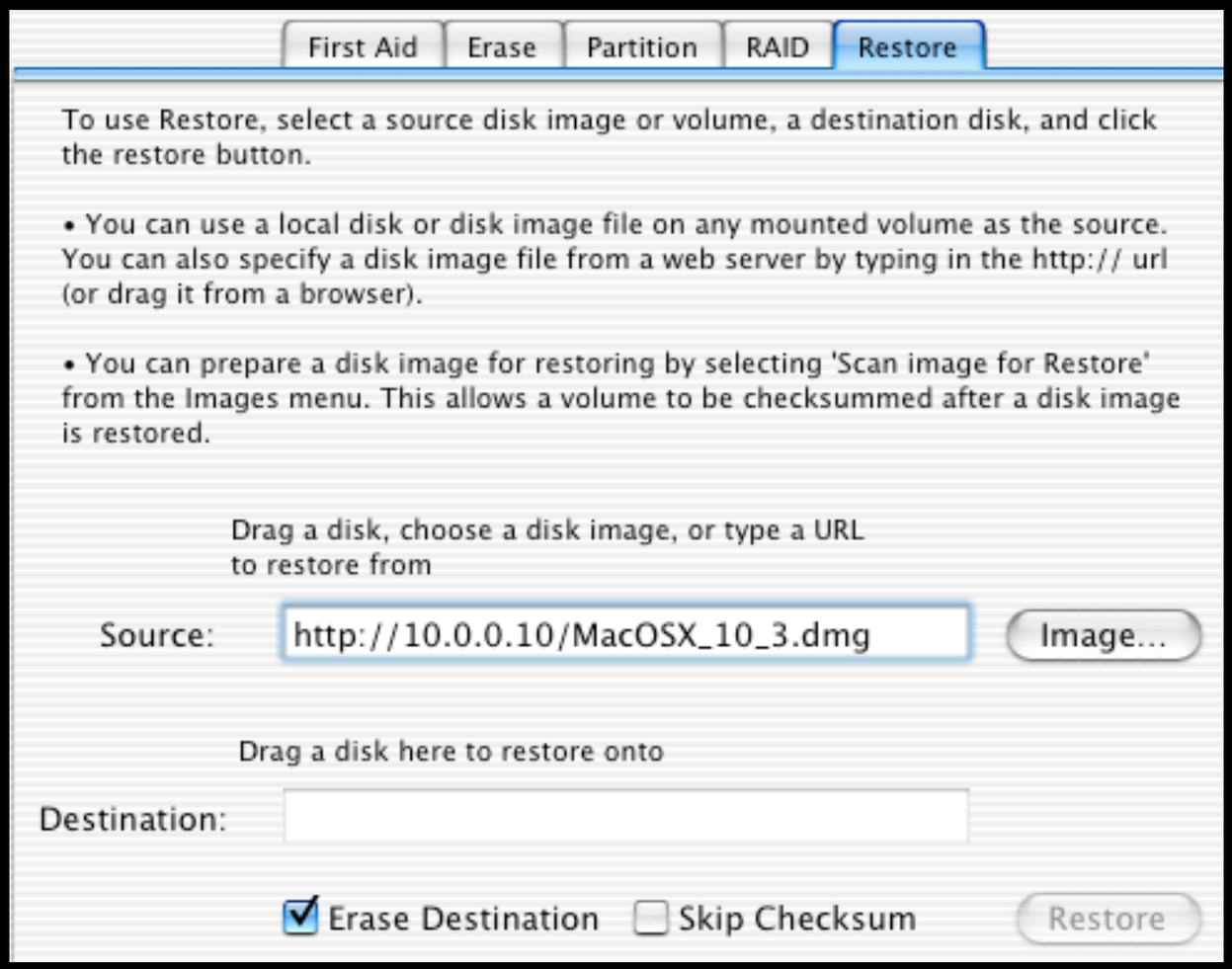
“Basic Implementation”

Mac OS 9 Migration to Mac OS X

- Use Sherlock 2 advance search capabilities to find users' files on local hard drive
- Have the user move their data into their new network based Home Directory by mounting it over AFP

Mac OS 9 Migration to Mac OS X

- Boot Desktop using 10.3 Install CD and point to the Mac OS X Custom Image or use NetBoot/NetInstall



Pixar Migration and Deployment Tools to Mac OS X

Gabe Benveniste
Mac OS X Systems Administrator

http://developer.apple.com/wwdc2003/urls.html

Pixar's Migration to Mac OS X—Step 1

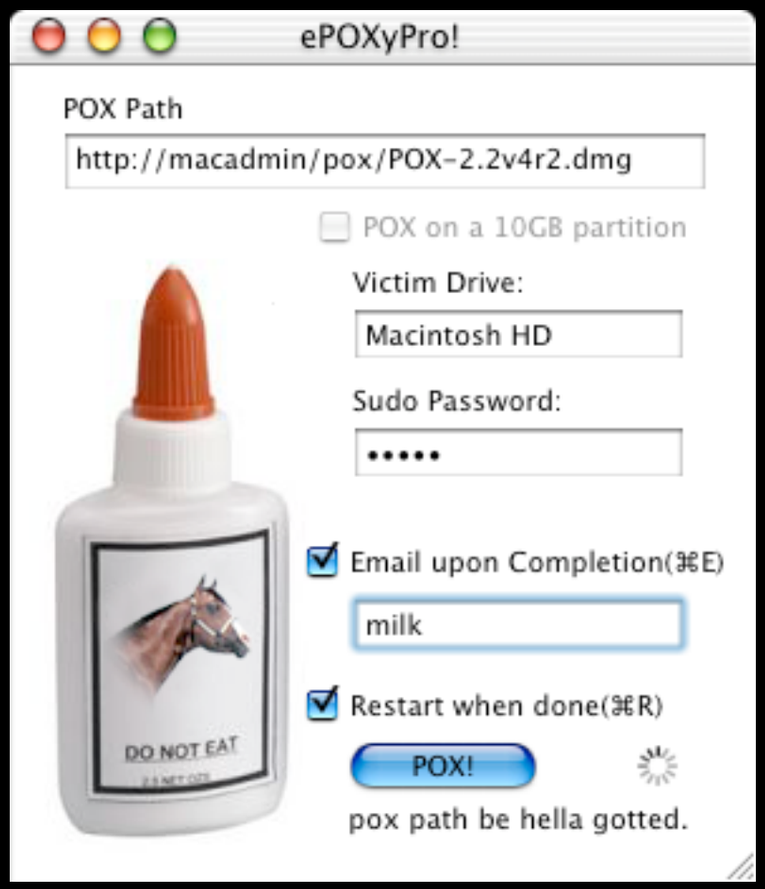
- Used Carbon Copy Cloner to create a custom Mac OS X image called the "POX," which was deployed on all our Macs
- The "POX" consists of :
  - Latest version of Mac OS X
  - A set of standard applications
  - Specific network and machine configurations
  - A custom home directory for new users
  - TIP: Modified /System/Library/User Template/English.lproj to contain custom Pixar user default home directory

Pixar's Migration to Mac OS X—Step 2

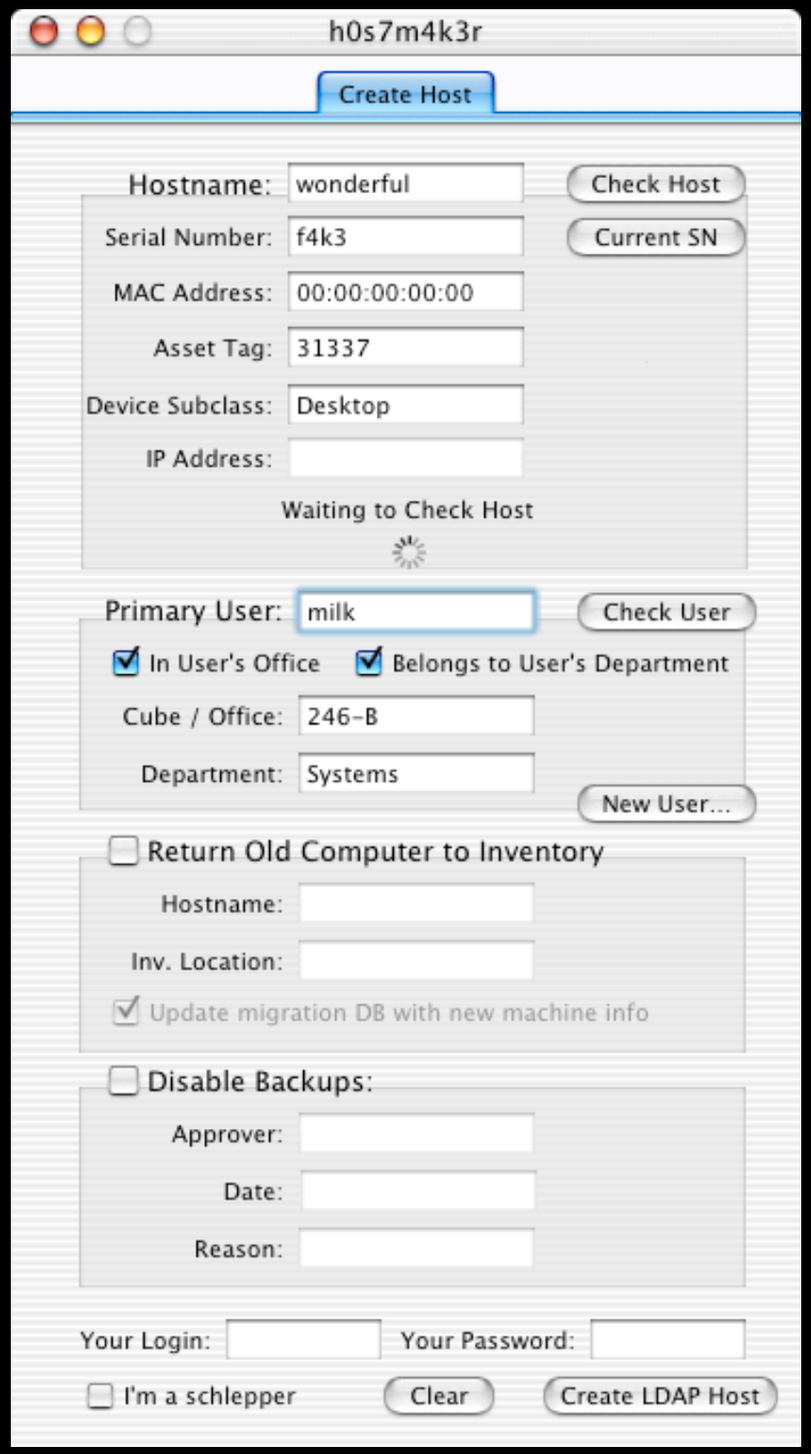
- Planning and tracking the migration
  - A FileMaker database was created for scheduling and configuration details
  - User fills out a web form that populates the FileMaker migration database
  - User's data is migrated from Mac OS 9 to a FireWire Drive using custom Python scripts

Pixar's Migration to Mac OS X—Step 3

Deploy the latest POX



- ePOXy is a simple AppleScript Studio interface to ASR
- ePoxy deploys our latest "POX" on target drive over http



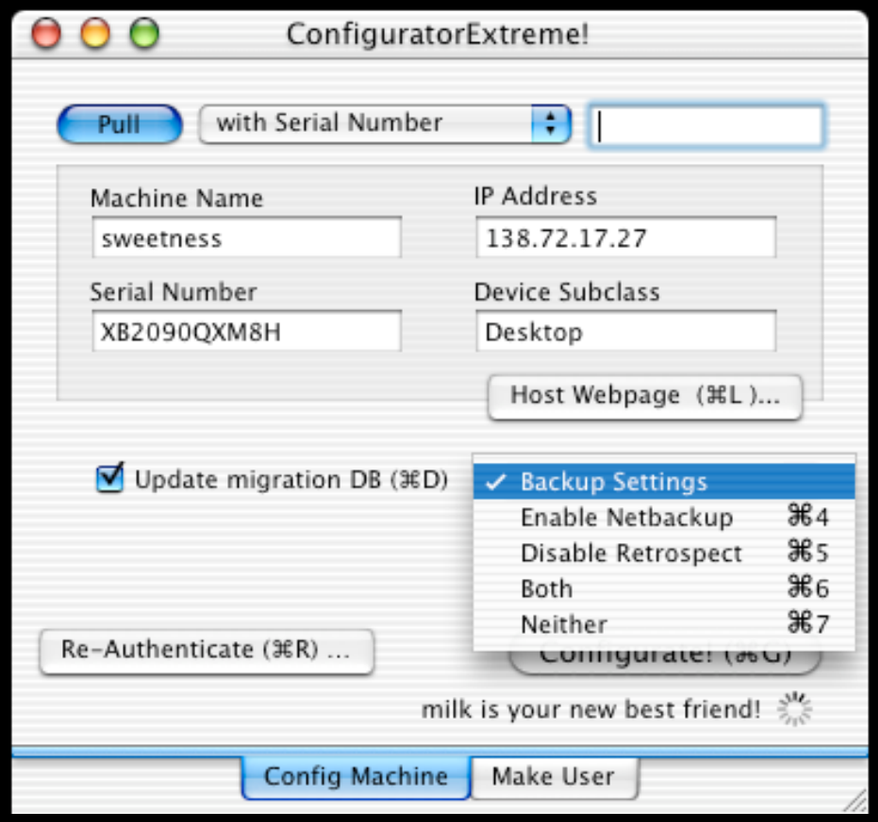
Pixar's Migration to Mac OS X—Step 4

Create a host record in LDAP

- Hostmaker is an AppleScript Studio application for creating LDAP host records
- Hostmaker gathers machine and users info and creates an LDAP record

Pixar's Migration to Mac OS X—Step 5

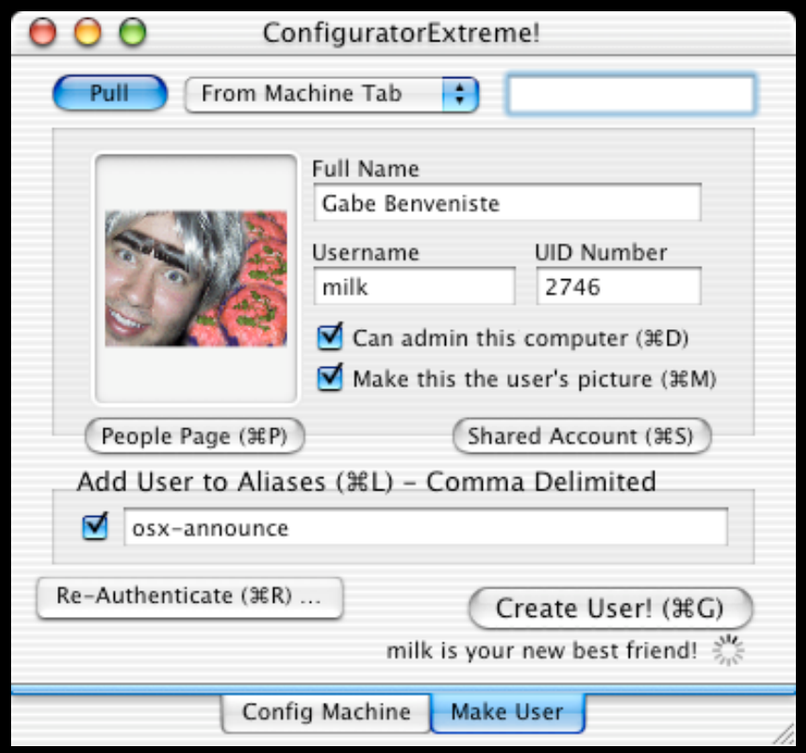
Configure a machine with information from LDAP



- Using the serial# from system_profiler, Configurator sets the IP address, machine name, and primary user with information from LDAP
- Backup solution picked and email sent to backup admin

Pixar's Migration to Mac OS X—Step 6

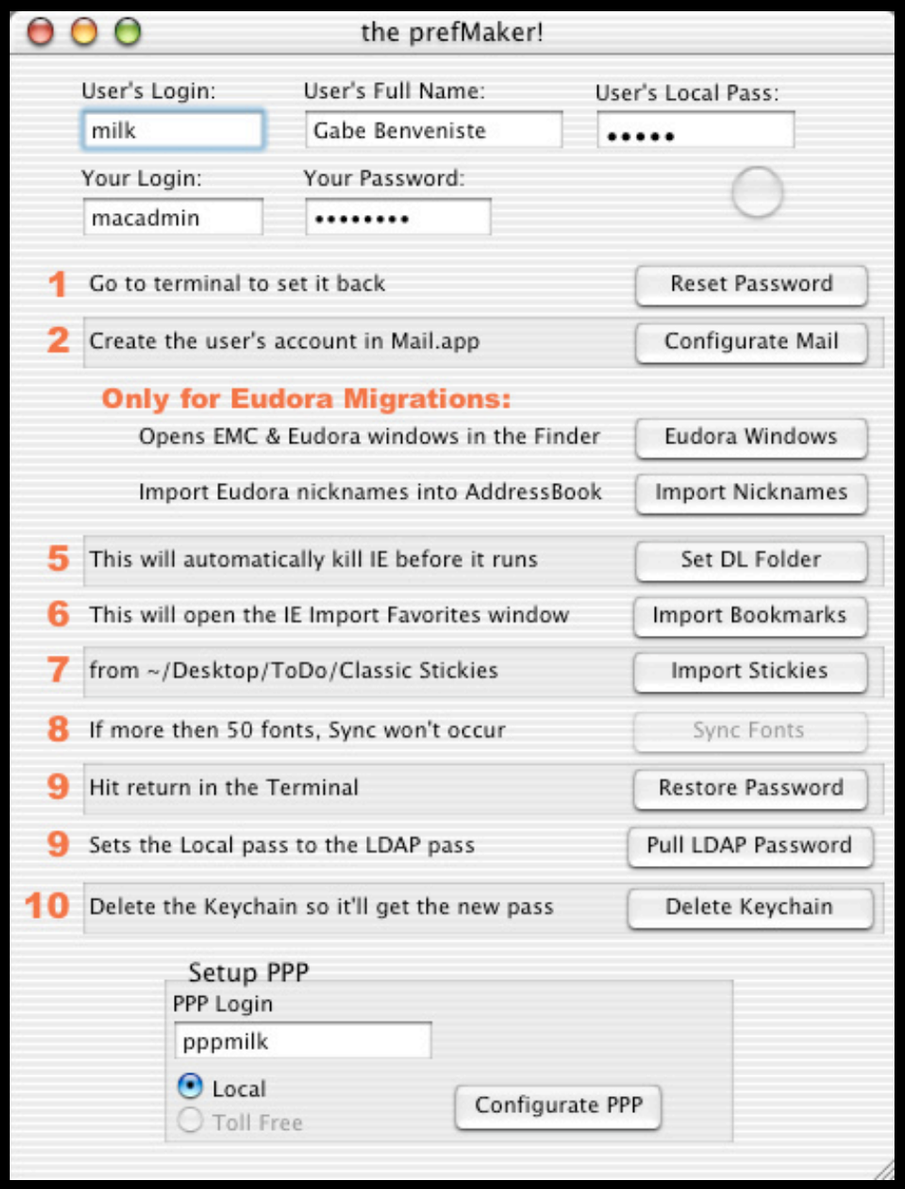
Creating a new user



- All user info is pulled from LDAP
- Multiple users can be created on the same computer using Configurator
- Using a custom Python script the users data is moved into home directory

Pixar's Migration to Mac OS X—Step 7

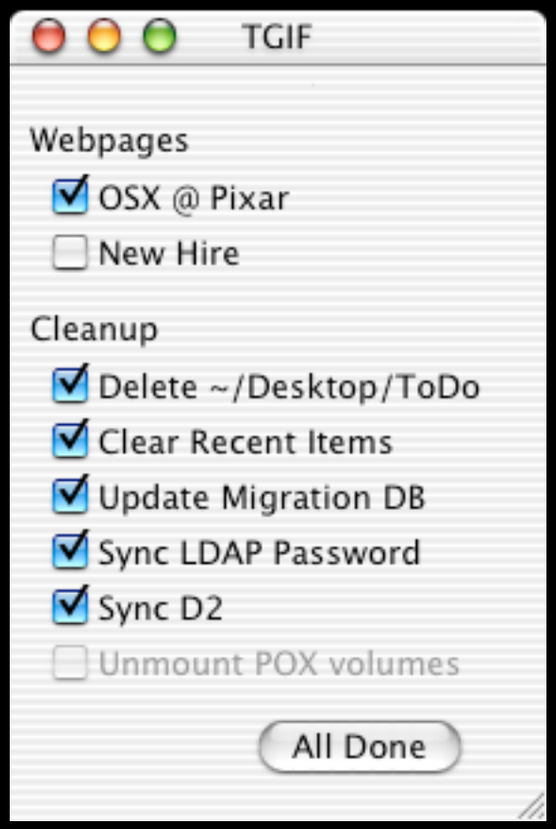
Setting the user's prefs



- prefMaker is an Applescript Studio for setting the users preferences and configuring mail
- prefMaker will import Stickies and bookmarks
- User picture gets added to Address Book for iChat use

Pixar's Migration to Mac OS X—Step 8

Deploying the computer



- TGIF is an Applescript Studio front end for wrapping up the migration
- Sets a default "Welcome to Mac OS X @ Pixar" webpage
- Syncs the LDAP passwords for all local users
- Updates the users migration record to "complete"

In Summary…

- Pixar was able to rapidly create tools that leverage our infrastructure
- Minimize repetitive data entry
- Capitalize on time savings
- We can now build tools to assist with our daily adminitrative tasks

Windows Client to Mac OS X “Panther”

http://developer.apple.com/wwdc2003/urls.html

Why Migrate from Windows Client?

- Security
- Stability
- Ease of use
- Save money on licensing cost
- Less need to apply security and virus patches
- LDAP and Active Directory connectivity
- Microsoft Office and Exchange Client run on Mac
- Latest JAVA and new Xcode Developer Tools

Third-Party Solutions for Migration

- Migrate from Outlook to Mail, Address Book, and iCal with Outlook2Mac
  - http://www.littlemachines.com
- Move2Mac by Detto Technologies
  - http://www.detto.com

Windows NT/2000 to “Panther” Server

http://developer.apple.com/wwdc2003/urls.html

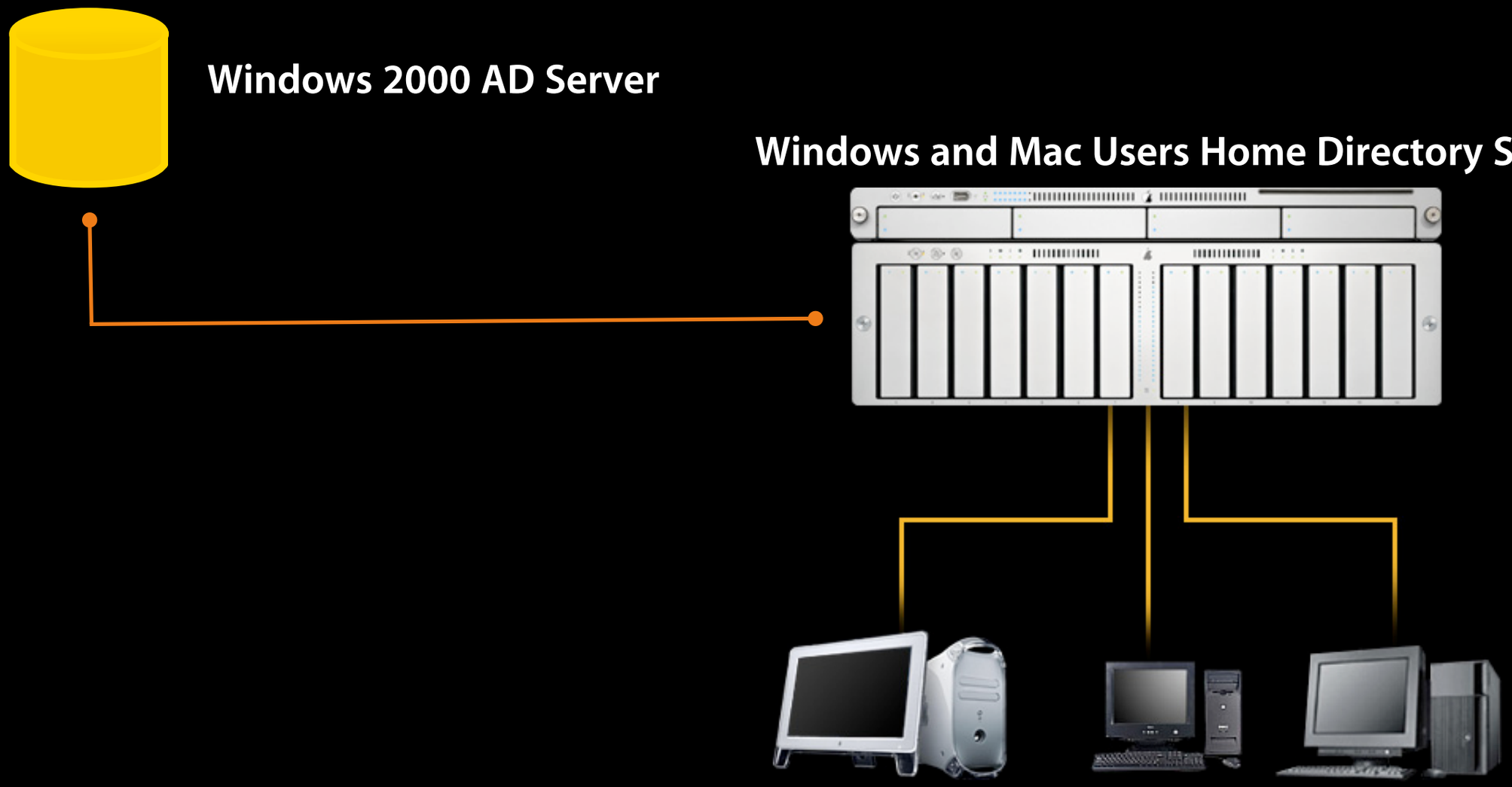
Why Migrate from Windows Servers?

- Security
- Ease of administration
- Unlimited client access licensing
- We can host your Windows users Home Directories for a fraction of the cost
- Scalable OpenLDAP Server with replication
- Built-in PDC support
- Active Directory integration
- Scalable mail server solution
- Built-in JBoss support for J2EE deployments

Migration Solutions

- Migrate from Windows NT to Mac OS X Server
  - DAS Technologies: http://www.das.com.tw
- Migrate Windows NT/2000 File Servers and Windows Home Directories
  - Using our Active Directory and Samba 3 capabilities you can deploy Apple Xserves, Apple Xserve RAID and Mac OS X Server to host your Windows clients
- Migration tool from MSFT ASP and ActiveX web sites to JAVA—http://www.stryon.com/

Integrating “Panther” Server



Demo:
Mac OS X Server Integration

Eric Clements
Open Directory Engineer

Wrap Up

IBM

LEGATO

SAP

Microsoft

ORACLE

SYBASE

PEOPLE Soft

MySQL

BUSINESS OBJECTS

Lotus

webMethods
The Business Integration Company

Tivoli

In Summary

- “Panther” and “Panther Server” are built with enterprise requirements in mind
- Pick your Directory Backend infrastucture wisely
- Use and deploy software technologies based around Open Standards
- Let us know how we can help you deploy more Macs in your enterprises
- We want your feedback!

Roadmap

621 Deploying Xserve	Russian Hill Thurs., 3:30pm
FF012 Enterprise	North Beach Fri., 9:00am
622 Network Security Best Practices	Nob Hill Fri., 10:30am
623 AppleScript for SysAdmins	Pacific Heights Fri., 2:00pm
626 Deploying Xserve RAID	Pacific Heights Fri., 3:30pm

Who to Contact

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http://developer.apple.com/wwdc2003/urls.html

For More Information

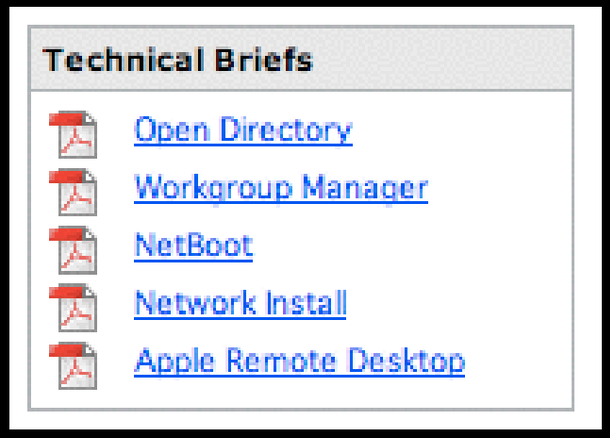
Reference Library

Documentation, Open Source, References

Mac OS X Server Documentation

http://www.apple.com/server/macosx/resources.html#g

http://www.apple.com/server/desktop_management.html



Mac OS X LDAP schema

Open LDAP Configuration files

Mac OS X Security APIs

http://developer.apple.com/darwin/projects/cdsa/

Q&A

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